

[illegible]

Sub B3  
A2

6. The method of claim 5 wherein the  
maximum allowed vehicle deceleration is capable of  
varying in a range between about 0.2 g and about  
0.3 g.

7. The method of claim 2 wherein the  
maximum allowed vehicle deceleration is an exponential  
function of the vehicle speed.

8. The method of claim 4 wherein the  
maximum allowed vehicle deceleration is defined by the  
equation:

$$\text{MAXDECEL} = 0.2 + 160/(\text{VEHSPD} + 40)^2,$$

where MAXDECEL is the maximum allowed vehicle  
deceleration, and VEHSPD is the vehicle speed.

9. In an adaptive speed control system for  
a vehicle, a system for controlling vehicle  
deceleration, the system comprising:

a receiver capable of receiving an input  
signal indicative of a speed of the vehicle; and

a controller capable of setting a maximum  
allowed vehicle deceleration based on the vehicle  
speed.

10. The system of claim 9 wherein, to set a  
maximum allowed vehicle deceleration based on the

B4  
Sub A3

1           12. The system of claim 10 wherein, to  
2     adjust the maximum allowed vehicle deceleration, the  
3     controller is capable of increasing the maximum  
4     allowed vehicle deceleration as the vehicle speed  
5     decreases.

B5  
Sub A4

1                    15. The system of claim 10 wherein the  
2       maximum allowed vehicle deceleration is an exponential  
3       function of the vehicle speed.

10 9  
1 ~~18~~. The system of claim ~~15~~ wherein the  
2 maximum allowed vehicle deceleration is defined by the  
3 equation:

4 
$$\text{MAXDECEL} = 0.2 + 160/(\text{VEHSPD} + 40)^2,$$

5 where MAXDECEL is the maximum allowed vehicle  
6 deceleration, and VEHSPD is the vehicle speed.

00992233-11204

add B6